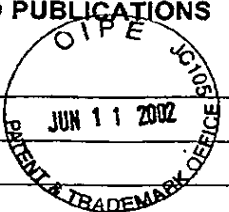


| U.S. Department of Commerce, Patent and Trademark Office<br>(PTO Form 1449 modified)  |     |                 |            | Docket No.<br>APPM/5799   |                        | Serial No.<br>10/084,767     |                            |
|---|-----|-----------------|------------|---------------------------|------------------------|------------------------------|----------------------------|
| <b>SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS<br/>CITED BY APPLICANT</b>   |     |                 |            | Applicant<br>Wang, et al. |                        | Confirmation No.:<br>Unknown |                            |
| (Use several sheets if necessary)   |     |                 |            | Filing Date<br>02/26/2002 |                        | Group<br>Unknown 1762        |                            |
| Examiner Unknown  |     |                 |            |                           |                        |                              |                            |
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| *Examiner Initial   |     | Document Number | Issue Date | Applicant(s) Name         | Class                  | Subclass                     | Filing Date If Appropriate |
| VJ  | A1  | 4,058,430       | 11/15/77   | Suntola et al.            | 156                    | 6                            | 11/25/76                   |
|   | A2  | 4,389,973       | 6/28/83    | Suntola et al.            | 156                    | 7                            | 12/11/81                   |
|   | A3  | 4,413,022       | 11/1/83    | Suntola et al.            | 4                      | 25 2                         | 6/21/77                    |
|   | A4  | 4,486,487       | 12/4/84    | Skarp                     | 4                      | 21                           | 4/25/84                    |
|   | A5  | 4,767,494       | 8/30/88    | Kobayashi et al.          | 1                      | 60                           | 9/19/86                    |
|   | A6  | 4,806,321       | 2/21/89    | Nishizawa et al.          | 4                      | 24                           | 7/21/87                    |
|   | A7  | 4,813,846       | 3/21/89    | Helms                     | 4                      | 74                           | 4/29/87                    |
|   | A8  | 4,829,022       | 5/9/89     | Kobayashi et al.          | 4                      | 10                           | 12/9/87                    |
|   | A9  | 4,834,831       | 5/30/89    | Nishizawa et al.          | 15                     | 61                           | 9/4/87                     |
|   | A10 | 4,838,983       | 6/13/89    | Schumaker et al.          | 15                     | 61                           | 3/18/88                    |
|   | A11 | 4,838,993       | 6/13/89    | Aoki et al.               | 15                     | 64                           | 12/3/87                    |
|   | A12 | 4,840,921       | 6/20/89    | Matsumoto                 | 43                     | 89                           | 6/30/88                    |
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|   | A16 | 4,861,417       | 8/29/89    | Mochizuki et al.          | 15                     | 61                           | 3/2/88                     |
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|   | A24 | 4,993,357       | 2/19/91    | Scholz                    | 11                     | 7                            | 12/1/89                    |
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| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant. |     |                 |            |                           |                        |                              |                            |

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|--|--|--|--|--|---------------------------|--|------------------------------|--|
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| (Use several sheets if necessary)  |  |  |  |  | Filing Date<br>02/26/2002 |  | Group<br>Unknown 1762        |  |
| Examiner Unknown   |  |  |  |  |                           |  |                              |  |



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|                       | A28 | 5,082,798       | 1/21/92    | Arimoto           | 43    | 1        | 9/27/91                    |
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|                       | A33 | 5,173,474       | 12/22/92   | Connell, et al.   | 50    | 1        | 3/11/93                    |
|                       | A34 | 5,186,718       | 2/16/93    | Tepman et al.     | 29    | 201      | 4/15/93                    |
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| Examiner | Date Considered |
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| (Use several sheets if necessary)  |  | Filing Date<br>02/26/2002 | Group<br>Unknown <i>162</i>  |
| Examiner Unknown   |  |                           |                              |

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| <i>[Signature]</i> | A53             | 5,316,793       | 5/31/94    | Wallace et al.    | 427   | 248.1    | 7/1/92                     |
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| Examiner           | Date considered |                 |            |                   |       |          | <i>[Signature]</i>         |

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| (Use several sheets if necessary)  |  |  |  |  | Filing Date<br>02/26/2002 |  | Group<br>Unknown             |  |
| Examiner Unknown   |  |  |  |  |                           |  | 1762                         |  |

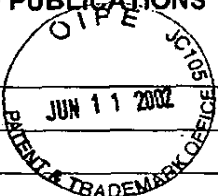
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|                       | A84  | 5,674,786       | 10/7/97    | Turner et al.     | 43    | 22       | 6/5/96                     |
|                       | A85  | 5,693,139       | 12/2/97    | Nishizawa et al.  | 11    | 89       | 6/15/93                    |
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|                       | A89  | 5,711,811       | 1/27/98    | Suntola et al.    | 11    | 71       | 11/2/95                    |
|                       | A90  | 5,730,801       | 3/24/98    | Tepman et al.     | 11    | 719      | 8/2/94                     |
|                       | A91  | 5,730,802       | 3/24/98    | Ishizumi et al.   | 11    | 719      | 12/2/96                    |
|                       | A92  | 5,747,113       | 5/5/98     | Tsai              | 42    | 255      | 7/29/96                    |
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| (Use several sheets if necessary)  |  | Filing Date<br>02/26/2002 | Group<br>Unknown <i>1762</i> |
| Examiner Unknown   |  |                           |                              |

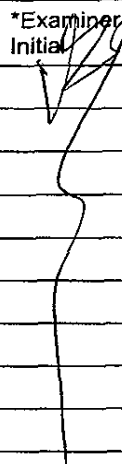


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|                       | A126            | 6,051,286  | 4/18/00           | Zhao et al.       | 576      | 8/22/97                    |  |
|                       | A127            | 6,062,798  | 5/16/00           | Muka              | 416      | 6/13/96                    |  |
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|--|--------------|-----------------|-------------------|-------------------|-------|----------|----------------------------|
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|  | A132         | 6,113,977       | 9/5/00            | Soininen et al.   | 42    | 64       | 9/1/97                     |
|  | A133         | 6,117,244       | 9/12/00           | Bang, et al.      | 11    | 715      | 3/24/98                    |
|  | A134         | 6,124,158       | 9/26/00           | Dautartas et al.  | 43    | 216      | 6/8/99                     |
|  | A135         | 6,130,147       | 10/10/00          | Major et al.      | 43    | 604      | 3/18/97                    |
|  | A136         | 6,139,700       | 10/31/00          | Kang et al.       | 20    | 192      | 9/30/98                    |
|  | A137         | 6,140,237       | 10/31/00          | Chan et al.       | 43    | 687      | 4/19/99                    |
|  | A138         | 6,140,238       | 10/31/00          | Kitch             | 43    | 687      | 4/21/99                    |
|  | A139         | 6,143,659       | 11/7/00           | Leem              | 43    | 688      | 8/27/98                    |
|  | A140         | 6,144,060       | 11/7/00           | Park et al.       | 25    | 310      | 7/31/98                    |
|  | A141         | 6,158,446       | 12/12/00          | Mohindra et al.   | 10    | 25.4     | 9/4/98                     |
|  | A142         | 6,174,377       | 1/16/01           | Doering, et al.   | 1     | 729      | 1/4/99                     |
|  | A143         | 6,174,809       | 1/16/01           | Kang, et al.      | 43    | 682      | 12/15/98                   |
|  | A144         | 6,200,893       | 3/13/01           | Sneh              | 43    | 685      | 3/11/98                    |
|  | A145         | 6,203,613       | 3/20/01           | Gates, et al.     | 11    | 104      | 10/19/99                   |
|  | A146         | 6,206,967       | 3/27/01           | Mak, et al.       | 11    | 666      | 6/14/00                    |
| A147   | 6,207,302    | 3/27/01         | Sugiura, et al.   | 42                | 690   | 3/2/98   |                            |
| A148   | 6,248,605    | 6/19/01         | Harkonen, et al.  | 43                | 29    | 6/2/99   |                            |
| A149   | 6,270,572    | 8/7/01          | Kim, et al.       | 11                | 93    | 8/9/99   |                            |
| A150   | 6,271,148    | 8/7/01          | Kao et al.        | 43                | 727   | 10/13/99 |                            |
| A151   | 6,287,965    | 9/11/01         | Kang, et al.      | 43                | 643   | 2/23/00  |                            |
| A152   | 6,291,876    | 9/18/01         | Stumborg, et al.  | 25                | 612   | 8/20/98  |                            |
| A153   | 6,305,314    | 10/23/01        | Sneh, et al.      | 1                 | 733 R | 12/1/99  |                            |
| A154   | 6,306,216    | 10/23/01        | Kim, et al.       | 1                 | 735   | 7/12/00  |                            |
| A155   | 6,316,098    | 11/13/01        | Yitzchaik, et al. | 43                | 39    | 3/23/99  |                            |
| A156   | 2001/0042799 | 11/22/01        | Kim, et al.       | 2                 | 533   | 2/2/01   |                            |

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|  |  |  |  |  |                           |  |                              |  |
|--|--|--|--|--|---------------------------|--|------------------------------|--|
| U.S. Department of Commerce, Patent and Trademark Office<br>(PTO Form 1449 modified) |  |  |  |  | Docket No.<br>APPM/5799   |  | Serial No.<br>10/084,767     |  |
| <b>SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS<br/>CITED BY APPLICANT</b>          |  |  |  |  | Applicant<br>Wang, et al. |  | Confirmation No.:<br>Unknown |  |
| (Use several sheets if necessary)  |  |  |  |  | Filing Date<br>02/26/2002 |  | Group<br>Unknown 1762        |  |
| Examiner Unknown   |  |  |  |  |                           |  |                              |  |

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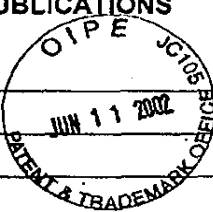
| Foreign Patent Documents |      |                    |             |         |       |          |                                     |                                     |
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|  |  |  |  |  |                           |  |                              |  |
|--|--|--|--|--|---------------------------|--|------------------------------|--|
| U.S. Department of Commerce, Patent and Trademark Office<br>(PTO Form 1449 modified) |  |  |  |  | Docket No.<br>APPM/5799   |  | Serial No.<br>10/084,767     |  |
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| (Use several sheets if necessary)  |  |  |  |  | Filing Date<br>02/26/2002 |  | Group<br>Unknown <i>1762</i> |  |
| Examiner Unknown   |  |  |  |  |                           |  |                              |  |

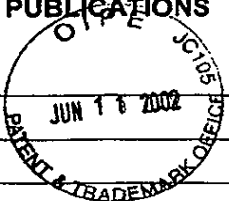


| Foreign Patent Documents  |           |                 |          |         |        |                                     |                                     |                          |
|---------------------------|-----------|-----------------|----------|---------|--------|-------------------------------------|-------------------------------------|--------------------------|
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|--|--|--|--|---------------------------|--|------------------------------|--|
| U.S. Department of Commerce, Patent and Trademark Office<br>(PTO Form 1449 modified) |  |  |  | Docket No.<br>APPM/5799   |  | Serial No.<br>10/084,767     |  |
| <b>SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS<br/>CITED BY APPLICANT</b>          |  |  |  | Applicant<br>Wang, et al. |  | Confirmation No.:<br>Unknown |  |
| (Use several sheets if necessary)  |  |  |  | Filing Date<br>02/26/2002 |  | Group<br>Unknown             |  |
| Examiner Unknown   |  |  |  |                           |  |                              |  |

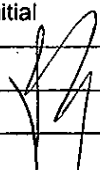


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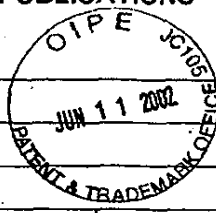
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| <b>SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS<br/>CITED BY APPLICANT</b>   |     |                    |          |         | Applicant<br>Wang, et al.       |          | Confirmation No.:<br>Unknown        |                                     |
| (Use several sheets if necessary)   |     |                    |          |         | Filing Date<br>02/26/2002       |          | Group<br>Unknown <i>112</i>         |                                     |
| Examiner Unknown  |     |                    |          |         |                                 |          |                                     |                                     |
| <b>Foreign Patent Documents</b>   |     |                    |          |         |                                 |          |                                     |                                     |
| *Examiner<br>Initial  |     | Document<br>Number | Date     | Country | Class                           | Subclass | Translation                         |                                     |
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| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant. |     |                    |          |         |                                 |          |                                     |                                     |

| U.S. Department of Commerce, Patent and Trademark Office<br>(PTO Form 1449 modified)  |           |                    |          |         | Docket No.<br>APPM/5799   |                                     | Serial No.<br>10/084,767            |                          |
|---|-----------|--------------------|----------|---------|---------------------------|-------------------------------------|-------------------------------------|--------------------------|
| <b>SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS<br/>CITED BY APPLICANT</b>   |           |                    |          |         | Applicant<br>Wang, et al. |                                     | Confirmation No.:<br>Unknown        |                          |
| (Use several sheets if necessary)   |           |                    |          |         | Filing Date<br>02/26/2002 |                                     | Group<br>Unknown 176                |                          |
| Examiner Unknown  |           |                    |          |         |                           |                                     |                                     |                          |
| <b>Foreign Patent Documents</b>   |           |                    |          |         |                           |                                     |                                     |                          |
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| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant. |           |                    |          |         |                           |                                     |                                     |                          |

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| U.S. Department of Commerce, Patent and Trademark Office<br>(PTO Form 1449 modified) |  | Docket No.<br>APPM/5799   | Serial No.<br>10/084,767     |
| <b>SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS<br/>CITED BY APPLICANT</b>          |  | Applicant<br>Wang, et al. | Confirmation No.:<br>Unknown |
| (Use several sheets if necessary)  |  | Filing Date<br>02/26/2002 | Group<br>Unknown 1762        |
| Examiner Unknown   |  |                           |                              |

**Foreign Patent Documents**

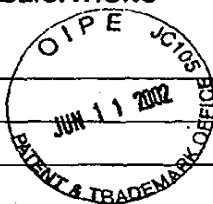
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Examiner

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

|  |  |                           |                              |
|--|--|---------------------------|------------------------------|
| U.S. Department of Commerce, Patent and Trademark Office<br>(PTO Form 1449 modified) |  | Docket No.<br>APPM/5799   | Serial No.<br>10/084,767     |
| <b>SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS<br/>CITED BY APPLICANT</b>          |  | Applicant<br>Wang, et al. | Confirmation No.:<br>Unknown |
| (Use several sheets if necessary)  |  | Filing Date<br>02/26/2002 | Group<br>Unknown <i>1162</i> |
| Examiner Unknown   |  |                           |                              |

**Foreign Patent Documents**

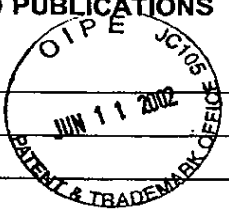
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Examiner

Date Considered *[Signature]*

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|  |  |  |  |  |                           |  |                              |  |
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| U.S. Department of Commerce, Patent and Trademark Office<br>(PTO Form 1449 modified) |  |  |  |  | Docket No.<br>APPM/5799   |  | Serial No.<br>10/084,767     |  |
| <b>SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS<br/>CITED BY APPLICANT</b>          |  |  |  |  | Applicant<br>Wang, et al. |  | Confirmation No.:<br>Unknown |  |
| (Use several sheets if necessary)  |  |  |  |  | Filing Date<br>02/26/2002 |  | Group<br>Unknown <i>1762</i> |  |
| Examiner Unknown   |  |  |  |  |                           |  |                              |  |



| Foreign Patent Documents |      |                    |          |         |       |          |                          |                                     |
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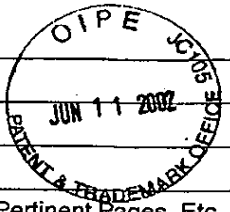
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| Examiner <i>W</i> | Date Considered <i>W</i> |
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| <b>SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS<br/>CITED BY APPLICANT</b>   |     | Applicant<br>Wang, et al.   | Confirmation No.:<br>Unknown |
| (Use several sheets if necessary)   |     | Filing Date<br>02/26/2002   | Group<br>Unknown 1762        |
| Examiner Unknown  |     |   |                              |
| <b>OTHER ART</b>  |     |   |                              |
| *Examiner Initial   |     | Including Author, Title, Date, Pertinent Pages, Etc.  |                              |
| V   | C1  | Hultman, et al., "Review of the thermal and mechanical stability of TiN-based thin films", <i>Zeitschrift Fur Metallkunde</i> , 90(10) (Oct. 1999), pp. 803-813   |                              |
|   | C2  | Klaus, et al., "Atomic Layer Deposition of SiO <sub>2</sub> Using Catalyzed and Uncatalyzed Self-Limiting Surface Reactions", <i>Surface Review &amp; Letters</i> , 6(3&4) (1999), pp. 435-448  |                              |
|   | C3  | Yamaguchi, et al., "Atomic-layer chemical-vapor-deposition of silicon dioxide films with extremely low hydrogen content", <i>Appl. Surf. Sci.</i> , Vol. 130-132 (1998), pp. 202-207  |                              |
|   | C4  | George, et al., "Surface Chemistry for Atomic Layer Growth", <i>J. Phys. Chem.</i> , Vol. 100 (1996), pp. 13121-131   |                              |
|   | C5  | George, et al., "Atomic layer controlled deposition of SiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> using ABAB...binary reaction sequence chemistry", <i>Appl. Surf. Sci.</i> , Vol. 82/83 (1994), pp. 460-467   |                              |
|   | C6  | Wise, et al., "Diethyldiethoxysilane as a new precursor for SiO <sub>2</sub> growth on silicon", <i>Mat. Res. Soc. Symp. Proc.</i> , Vol. 334 (1994), pp. 37-43   |                              |
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|   | C8  | Ritala, et al., "Perfectly conformal TiN and Al <sub>2</sub> O <sub>3</sub> films deposited by atomic layer deposition", <i>Chemical Vapor Deposition</i> , Vol. 5(1) (January 1999), pp. 7-9   |                              |
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|   | C35  | Abstracts of articles re atomic layer deposition and semiconductors and copper <i>No date or page numbers</i>   |                              |
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| INFORMATION DISCLOSURE STATEMENT BY<br>APPLICANT                                     |  | Applicant<br>Wang, et al.              |  | Confirmation No.:<br>3478 |  |
| (Use several sheets if necessary)  |  | Filing Date<br>February 26, 2002       |  | Group<br>1762             |  |
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|                   | B2              | 02/45167  | 06/06/02 | WO    | H1L      | 2700        | <input type="checkbox"/> | <input type="checkbox"/> |
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|  | A21 | 2001/0054730    | 12/27/01   | Kim, et al.                          | 27    | 3                         | 05/13/01                   |
|  | A22 | 2001/0029094    | 10/11/01   | Mee-Young, et al.                    | 43    | 5                         | 09/16/99                   |
|  | A23 | 2001/0028924    | 10/11/01   | Sherman                              | 42    | 28                        | 05/14/01                   |
|  | A24 | 2001/0024387    | 09/27/01   | Raijmakers, et al.                   | 27    | 2                         | 02/22/01                   |
|  | A25 | 2001/0009695    | 07/26/01   | Saani, et al.                        | 43    | 39                        | 01/13/01                   |
|  | A26 | 2001/0002280    | 05/31/01   | Sneh                                 | 42    | 28                        | 12/2/00                    |
| Examiner [Signature]   |     |                 |            | Date Considered [Signature]          |       |                           |                            |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.